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NAME: Human IL-1 epsilon DNA

Nucleotide sequence:

GAAAAGGATA TAATGGATTT GTACAACCAA CCCGAGCCTG TGAAGTCCTT
TCTCTTCTAC CACAGCCAGA GTGGCAGGAA CTCCACCTTC GAGTCTGTGG
CTTTCCCTGG CTGGTTCATC GCTGTCAGCT CTGAAGGAGG CTGTCCTCTC
ATCCTTACCC AAGAACTGGG GAAAGCCAAC ACTACTGACT TTGGGTAAAC
TATGCTGTTT TAA
(SEQ ID NO:5)

ATGGAAAAAG CATTGAAAAT TGACACACCT CAGCAGGGGA GCATTCAGGA
TATCAATCAT CGGGTGTGGG TTCTTCAGGA CCAGACGCTC ATAGCAGTCC
CGAGGAAGGA CCGTATGTCT CCAGTCACTA TTGCCTTAAT CTCATGCCGA
CATGTGGAGA CCCTTGAGAA AGACAGAGGG AACCCCATCT ACCTGGGCCT
GAATGGACTC AATCTCTGCC TGATGTGTGC TAAAGTCGGG GACCAGCCCA
CACTGCAGCT GAAGGAAAAG GATATAATGG ATTTGTACAA CCAACCCGAG
CCTGTGAAGT CCTTTCTCTT CTACCACAGC CAGAGTGGCA GGA ACTCCAC
CTTCGAGTCT GTGGCTTTCC CTGGCTGGTT CATCGCTGTC AGCTCTGAAG
GAGGCTGTCC TCTCATCCTT ACCCAAGAAC TGGGGAAAGC CAACACTACT
GACTTTGGGT TAACTATGCT GTTTTAA
(SEQ ID NO:7)

ATGGAAAAAG CATTGAAAAT TGACACACCT CAGCGGGGGA GCATTCAGGA
TATCAATCAT CGGGTGTGGG TTCTTCAGGA CCAGACGCTC ATAGCAGTCC
CGAGGAAGGA CCGTATGTCT CCAGTCACTA TTGCCTTAAT CTCATGCCGA
CATGTGGAGA CCCTTGAGAA AGACAGAGGG AACCCCATCT ACCTGGGCCT
GAATGGACTC AATCTCTGCC TGATGTGTGC TAAAGTCGGG GACCAGCCCA
CACTGCAGCT GAAGGAAAAG GATATAATGG ATTTGTACAA CCAACCCGAG
CCTGTGAAGT CCTTTCTCTT CTACCACAGC CAGAGTGGCA GGA ACTCCAC
CTTCGAGTCT GTGGCTTTCC CTGGCTGGTT CATCGCTGTC AGCTCTGAAG
GAGGCTGTCC TCTCATCCTT ACCCAAGAAC TGGGGAAAGC CAACACTACT
GACTTTGGGT TAACTATGCT GTTTTAA
(SEQ ID NO:12)

FIGURE 1

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NAME: Human IL-1 epsilon polypeptide

Translation in relevant reading frame (5' 3'):

EKDIMDLYNQ PEPVKSFLFY HSQSGRNSTF ESVAFPGWFI AVSSEGGCPL
ILTQELGKAN TTDFGLTMLF *
(SEQ ID NO:6)

MEKALKIDTP QQGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR
HJETLEKDRG NPIYLGLNGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE
PVKSFLFYHS QSGRNSTFES VAFPGWFIAV SSEGGCPLIL TQELGKANTT
DFGLTMLF*
(SEQ ID NO:8)

MEKALKIDTP QRGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR
HJETLEKDRG NPIYLGLNGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE
PVKSFLFYHS QSGRNSTFES VAFPGWFIAV SSEGGCPLIL TQELGKANTT
DFGLTMLF*
(SEQ ID NO:13)

FIGURE 2

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human IL-1 epsilon 3' exon (top) vs. mouse IL-1 epsilon (long form) (bottom):
(64% percent identity)

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1 EKDIMDLYNQPEPVKSFLEYHSQSGRNSTFESVAFPGWFI AVSSEGGCPL 50
| . ||| : ||| . ||| . ||| . ||| . ||| . ||| . ||| . |||
29 EGNIMEMYNNKKEPVKASLFYHKKSGTTSTFESAAPGWFIAVCSKGSCPL 78

51 ILTQELGKANTTDFGLTML 69 (SEQ ID NO: 10)
||||| . ||| : ..
79 ILTQELGEIFITDFEMIVV 97 (SEQ ID NO: 11)
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FIGURE 3

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Human IL-1 epsilon (amino acids 51-159) (top)

vs.

Mouse IL-1 epsilon (Long Form) (bottom):

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51 HVETLEKDRGNPIYLGNGNLNLCCLMCAKVG DQ.PTLQLKEKDIMDLYNQP 99
      : .      | . .      | . | . | . ||::||.
1  .....MFRILVVVCGSCRTISSLSQSGKSKQFQEGNIMEMYNKK 39
100 EPVKSFLFYHSQSGRNSTFESVAFPGWFIAVSSEGGCPLILTQELGKANT 149
      ||||. |||| .|| ||||| ||||| ||||| |. | ||||| |||||.
40 EPVKASLFYHKKSGTTSTFESAAPGWFIAVCSKGCPLILTQELGEIFI 89
150 TDFGLTMLF* 159      (SEQ ID NO:9)
      ||| : .. |
90 TDFEMIVVH* 99      (SEQ ID NO:2)
  
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(53% similarity, 49% identity)

FIGURE 4

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